

ABSTRACT

The method for producing a plastic lens of the present invention comprises forming a hard coat film by coating a plastic substrate with a
5 coating composition comprising (A) modified colloid particles of a stannic oxide-zirconium oxide composite having diameters of 4.5 to 60 nm which are formed by coating the surface of nuclei with colloid particles of a tungsten oxide-stannic oxide-silicon dioxide composite having diameters of 2 to 7 nm, a ratio of amounts by weight of WO_3/SnO_2 of 0.1 to 100 and a
10 ratio of amounts by weight of $\text{SiO}_2/\text{SnO}_2$ of 0.1 to 100 using as the nuclei colloid particles of a stannic oxide-zirconium oxide composite having diameters of 4 to 50 nm and a structure formed by bonding colloid particles of stannic oxide obtained by reaction of metallic tin, an organic acid and hydrogen peroxide and colloid particles of zirconium oxide to
15 each other in amounts such that a ratio of amounts by weight of the oxides of $\text{ZrO}_2/\text{SnO}_2$ is 0.02 to 1.0 and (B) an organosilicon compound.
The method provides a plastic lens having a hard coat film exhibiting improved scratch resistance and a great refractive index without adverse effects on various properties such as the property of preventing yellowing
20 under irradiation with ultraviolet light and adhesion.